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2011 Drinking Water Quality Data

Water quality data presented below has been compiled from the results of laboratory testing. Water samples were taken from the Buffalo Pound Water Treatment Plant and comprehensive water quality analyses for all parameters were conducted in the plant laboratory.

Water quality test results for bacteriological, chlorine residual and turbidity are given in the 2011 Drinking Water Quality and Compliance Report.

Parameter	Testing Result Annual Average	Saskatchewan Environment Water Quality Objective
Sodium (Na)	70.9	<300.0
Sulphate (SO4)	217.1	<500.0
Total Dissolved Solids (TDS)	473	<1500
Manganese (Mn)	< 0.005 DL	<0.05
Nitrate (NO3	0.49	<45.0
Potassium (K)	7.49	No Standard
Hardness	215	800 (55.9)
Iron (Fe)	< 0.01 DL	<0.30
Magnesium (Mg)	24.2	<200
Calcium (Ca)	46.8	No Standard
Chloride (Cl)	25.63	<250
Fluoride (Fl)**	0.10	<1.50
Alkalinity (CaCo3)	121	<500

Notes:

1. Values are given in milligrams per litre (mg/l) which is equivalent to parts per million (ppm)
2. Hardness value in brackets is grains per imperial gallon (gpg)
3. ** No fluoride was added to Regina water. Fluoride measured is naturally occurring.
4. "<" means "less than"
5. "DL" means detection limit

If more information is required, please contact the City of Regina at 777-7000 or visit : www.regina.ca

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2011 Drinking Water Quality and Compliance Report

Annual Notice to Consumers

Introduction

Saskatchewan Ministry of Environment requires that at least once each year waterworks owners provide notification to consumers of the quality of water produced and supplied as well as information on the performance of the waterworks in submitting samples as required by a Minister's Order or Permit to Operate a waterworks.

The following is a summary of the City of Regina water quality and sample submission compliance records for the period January 01, 2011 – December 31, 2011. This report was completed on January 26, 2012.

Readers should refer to Saskatchewan Ministry of Environment's **Municipal Drinking Water Quality Monitoring Guidelines, November 2002, EPB 202** for more information on minimum sample submission requirements and the meaning of type of sample. Permit requirements for a specific waterworks may require more sampling than outlined in the department's monitoring guidelines. If consumers need more information on the nature and significance of specific water tests, for example, "what is the significance of selenium in a water supply", more detailed information is available from:
http://www.hc-sc.gc.ca/ewh-semt/pubs/water-eau/index_e.html

Water Quality Standards

I. Bacteriological Quality

Parameter	Limit	Regular Samples Required	Total Samples Tested	No. of Samples Positive of Bacteria
Total Coliform and Background Bacteria	Zero Organisms/100mL Less than 200/100mL	795	819	1

II. Water Disinfection – Chlorine Residual in Distribution System for Test Results Submitted with Bacteriological Samples

Parameter	Minimum Limit (mg/L)	Test Level Range (mg/L)	No. of Tests Required	No. of Tests Performed
Chlorine Residual	0.1 mg/L free 0.5 mg/L total	0.1 – 0.99 0.31 – 1.36	795	920

III. Turbidity

Parameter	Limit (NTU)	Test Level Range	No. of Tests Not Meeting Requirements	No. of Tests Required	No. of Tests Performed
Turbidity	1.0	0.03-4.23	17	795	920

(NTU) Nephelometric Turbidity Unit – a unit of measurement used to indicate the clarity of drinking water

IV. Chemical – Trihalomethanes

Parameter	Limit (mg/L)	Sample Result (average)	No. of Samples Required	No. of Samples Submitted
Trihalomethanes	0.1	0.08	8	8

Contact Information

More information on water quality and sample submission performance may be obtained from:

City of Regina
Tel: 777-7000
Website: www.regina.ca